Lenovo IdeaCentre B540 Intel® Core™ i5 i5-3450S 58,4 cm (23") 1920 x 1080 pixels Touchscreen All-in-One PC 4 GB DDR3-SDRAM 1 TB HDD NVIDIA® GeForce® 615M Windows 8 Black, Silver

Brand : Lenovo

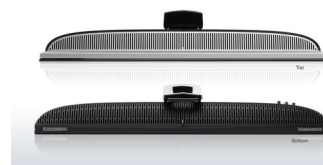**Product name :** IdeaCentre B540

Product code: 57-308817

Intel Core i5-3450S(2.8GHz), 4GB RAM, 1000GB HDD, Windows 8 64

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Your all-in-one entertainment future
Amplify your home entertainment experience with a desktop that merges slim, modern design with state-of-the-art multimedia features. Play 3D games, enjoy thrilling movies or catch your favorite TV shows in HD — all on a crisp, widescreen display.

- Integrated stereo speakers with Dolby® Advanced Audio™ v2;
- HDMI output and a 6-in-1 card reader;
- Integrated 720p high-sense webcam;
- Internal power adapter for tidier cable management;
- Easy access to hard drive and memory for simple upgrades.

Display		Ports & interfaces	
Display diagonal *	58,4 cm (23")	Ethernet LAN (RJ-45) ports	1
Display resolution *	1920 x 1080 pixels	USB 2.0 ports quantity *	6
Touchscreen *	✔	HDMI ports quantity *	1
Full HD	✔	Headphone outputs	1
HD type *	Full HD	Microphone in	✔
LED backlight	✔	DC-in jack	✔
Touch technology	Multi-touch	Mini PCI Express slots	2
Native aspect ratio	16:9	**Design**	
Display brightness	250 cd/m²	Product colour *	Black, Silver
Display surface	Gloss	Cable lock slot	✔
Processor		**Performance**	
Processor manufacturer *	Intel	Product type *	All-in-One PC
Processor family *	Intel® Core™ i5	Motherboard chipset	Intel® H61 Express
Processor generation	3rd gen Intel® Core™ i5	**Software**	
Processor model *	i5-3450S	Operating system architecture	64-bit
Processor cores	4	Operating system installed *	Windows 8
Processor threads	4	**Processor special features**	
Processor boost frequency	3,5 GHz	Intel® Turbo Boost Technology	2.0
Processor frequency *	2,8 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✘
Processor cache	6 MB	Intel® My WiFi Technology (Intel® MWT)	✘
Processor cache type	Smart Cache		
System bus rate	5 GT/s	Intel® Identity Protection Technology (Intel® IPT)	✔
64-bit computing	✔		
Thermal Design Power (TDP)	65 W	Intel® Anti-Theft Technology (Intel® AT)	✔
PCI Express slots version	3.0		
Processor socket	LGA 1155 (Socket H2)	Intel® Wireless Display (Intel® WiDi)	✔
Processor lithography	22 nm		
Processor operating modes	64-bit	Enhanced Intel SpeedStep Technology	✔
Stepping	E1		
Bus type	DMI	Intel® Quick Sync Video Technology	✔
Processor codename	Ivy Bridge	Intel® Clear Video HD Technology (Intel® CVT HD)	✔
Processor series	Intel Core i5-3400 Desktop series		
FSB Parity	✘		

Processor

PCI Express configurations	1x8, 1x16, 2x4, 2x8
Tcase	69,1 °C
CPU multiplier (bus/core ratio)	28
Maximum internal memory supported by processor	32 GB
Conflict-Free processor	✔
Memory types supported by processor	DDR3-SDRAM
Memory clock speeds supported by processor	1333,1600 MHz
Memory bandwidth supported by processor (max)	25,6 GB/s
Memory channels supported by processor	Dual
ECC supported by processor	✘

Memory

Internal memory *	4 GB
Internal memory type	DDR3-SDRAM
Maximum internal memory *	8 GB
Memory slots	2
Memory slots type	SO-DIMM
Memory clock speed	1600 MHz

Storage

Total storage capacity *	1 TB
Storage media *	HDD
Number of storage drives installed	1
Number of hard drives installed	1
Hard drive speed	7200 RPM
Hard drive interface	SATA II
Optical drive type *	DVD±RW
Card reader integrated	✔

Graphics

Discrete graphics card model *	NVIDIA® GeForce® 615M
Discrete graphics card memory	2 GB
Discrete graphics memory type	GDDR3
On-board graphics card *	✔
On-board graphics card family	Intel® HD Graphics
On-board graphics card model *	Intel® HD Graphics 2500
On-board graphics card base frequency	650 MHz
On-board graphics card dynamic frequency (max)	1100 MHz
Number of displays supported (on-board graphics)	3
On-board graphics card ID	0x152

Audio

Built-in speaker(s) *	✔
RMS rated power	6 W
Audio system	HD

Camera

Built-in camera *	✔
Camera resolution	1280 x 720 pixels

Network

Wi-Fi *	✔
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)
Ethernet LAN *	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth *	✘

Processor special features

Intel Clear Video Technology	✘
Intel® Insider™	✔
Intel® InTru™ 3D Technology	✔
Intel Flex Memory Access	✔
Intel® AES New Instructions (Intel® AES-NI)	✔
Intel Trusted Execution Technology	✘
Intel Enhanced Halt State	✔
Intel VT-x with Extended Page Tables (EPT)	✔
Intel Demand Based Switching	✘
Intel® Secure Key	✔
Intel TSX-NI	✘
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✘
Intel 64	✔
Execute Disable Bit	✔
Idle States	✔
Thermal Monitoring Technologies	✔
Processor package size	37.5 x 37.5 mm
Supported instruction sets	AVX, SSE4.1, SSE4.2
CPU configuration (max)	1
Embedded options available	✘
Graphics & IMC lithography	22 nm
Thermal solution specification	PCG 2011C
Intel Virtualization Technology for Directed I/O (VT-d)	✘
Intel Identity Protection Technology version	1,00
Intel Secure Key Technology version	1,00
Intel Virtualization Technology (VT-x)	✔
Intel TSX-NI version	0,00
Intel Dual Display Capable Technology	✘
Intel FDI Technology	✔
Intel Rapid Storage Technology	✘
Intel Fast Memory Access	✔
Processor ARK ID	65512

Power

AC adapter power	200 W

Weight & dimensions

Width (with stand)	576,6 mm
Depth (with stand)	110,3 mm
Height (with stand)	411,9 mm
Weight (with stand)	9,18 kg

Sustainability

Sustainability certificates	ENERGY STAR

Packaging content

Mouse included	✔
Keyboard included	✔
AC adapter included	✔
Quick start guide	✔

Other features

Storage drive interface	Serial ATA II

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